

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,052,534 B2
 APPLICATION NO. : 10/617818
 DATED : May 30, 2006
 INVENTOR(S) : Toshiki Taguchi

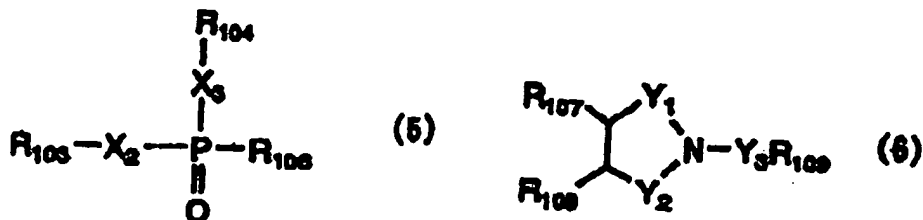
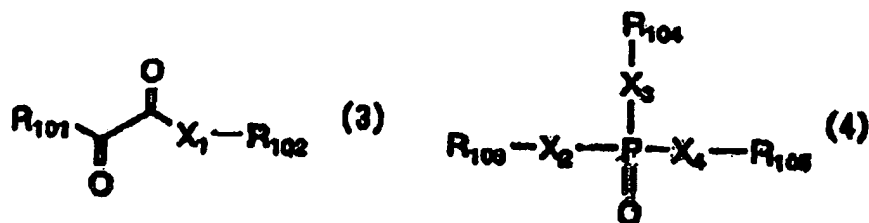
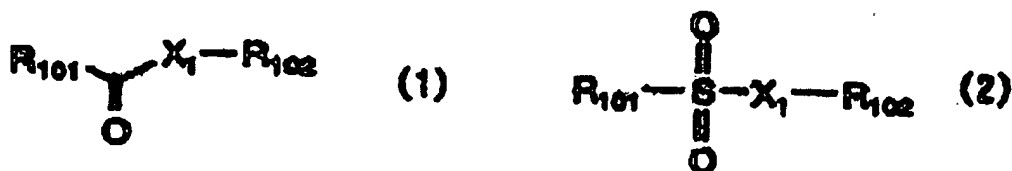
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 38, please amend claim 1 to read as follows:

1. (previously presented): An ink for inkjet recording, comprising a dye, water, a water-miscible organic solvent and a precursor of acid;

wherein the precursor of acid is a compound showing no acidity at the time of preparation and storage of the ink, but is capable of releasing acids by a reaction after aging or printing, or is capable of rendering the ink system acidic as a result of the reaction, and the precursor of acid includes at least one compound represented by the following formulae (1) to (9):

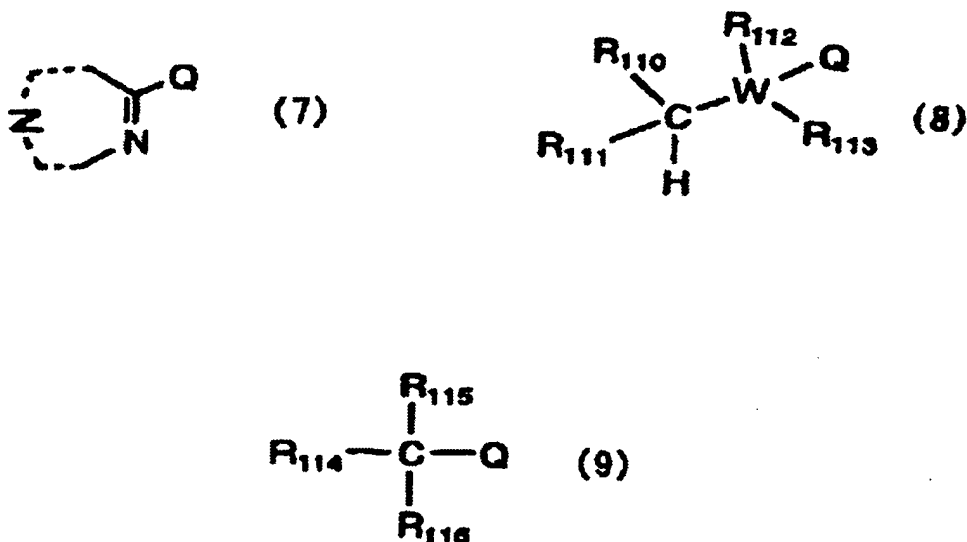


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wherein R_{101} represents an alkyl group, an alkenyl group, an alkynyl group, an aryl group, a heterocyclic group, an amino group, an alkoxy group, an aryloxy group, an alkylthio group or an arylthio group, and the groups may have a substituent;

R_{102} to R_{106} and R_{109} each represent an alkyl group, an alkenyl group, an alkynyl group, an aryl group or heterocyclic group, and the groups may have a substituent;

R_{107} and R_{108} each represent a hydrogen atom, a chemical bond forming a double bond by being linked together, a halogen atom, an alkyl group, an alkenyl group, an alkynyl group, an aryl group or a heterocyclic group, and the groups may have a substituent, and two of R_{107} and R_{108} may form a ring by combining with each other;

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X₁ to X₄ each represent an oxygen atom, a nitrogen atom, a sulfur atom, or a group represented by -N(R₁₁₉)-O- or -O-N(R₁₁₉)-; R₁₁₉ represents a hydrogen atom, an alkyl group, an aryl group or a heterocyclic group;

Y₁ to Y₃ each represent a carbonyl group, a sulfonyl group, or a group represented by -PO(R₁₂₀)R₁₂₁; R₁₂₀ and R₁₂₁ each represent an alkyl group, an aryl group, a heterocyclic group, an amino group, an alkoxy group, an aryloxy group, an alkylthio group or an arylthio group;

Z represents atoms capable of forming an aromatic heterocyclic ring; Q represents a halogen atom, an alkoxy group, an aryloxy group, an alkylthio group, an arylthio group, an amino group, an acyloxy group, an alkylsulfonyloxy group or an arylsulfonyloxy group;

W represents a carbon atom or a nitrogen atom; Q has the same definition as described above; R₁₁₀ and R₁₁₁ each represent a hydrogen atom, a halogen atom, an alkyl group, an aryl group, a heterocyclic group, an amino group, an alkoxy group, an aryloxy group, an alkylthio group, an arylthio group, an acyl group, an alkylsulfonyl group or an arylsulfonyl group;

R₁₁₂ and R₁₁₃ each represent a hydrogen atom, a halogen atom, or an alkyl group, an aryl group, a heterocyclic group, an alkoxy group, an aryloxy group, an alkylthio group, an arylthio group, an acyl group, an alkylsulfonyl group or an arylsulfonyl group;

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Q has the same definition as described above; R₁₁₄ represents an alkyl group, an aryl group, a heterocyclic group, an acyl group, an alkylsulfonyl group, an arylsulfonyl group, a phosphoric acid group, an alkylphosphonic acid group, an arylphosphonic acid group, a dialkylphosphonic acid group or a diarylphosphonic acid group; and

R₁₁₅ and R₁₁₆ each represent a hydrogen atom, a halogen atom, an alkyl group, an aryl group, a heterocyclic group, an amino group, an alkoxy group, an aryloxy group, an alkylthio group, an arylthio group, an acyl group, an alkylsulfonyl group or an arylsulfonyl group; and

the ink comprises the precursor of acid in an amount of 0.01 to 20 wt%.

Signed and Sealed this

Tenth Day of June, 2008

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looped initial "J" and a distinct "D" at the end.

JON W. DUDAS
Director of the United States Patent and Trademark Office